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Applied Algebra and Number Theory Gerhard Larcher, Friedrich Pillichshammer, Arne Winterhof, Chaoping Xing, 2014-12-11 Harald Niederreiter's pioneering research in the field of applied algebra and number theory has led to important and substantial breakthroughs in many areas This collection of survey articles has been authored by close colleagues and leading experts to mark the occasion of his 70th birthday The book provides a modern overview of different research areas covering uniform distribution and quasi Monte Carlo methods as well as finite fields and their applications in particular cryptography and pseudorandom number generation Many results are published here for the first time The book serves as a useful starting point for graduate students new to these areas or as a refresher for researchers wanting to follow recent trends

Commutative Ring Theory Paul-Jean Cahen, Marco Fontana, Evan Houston, Salah-Eddine Kabbaj, 2023-06-14 Presents the proceedings of the Second International Conference on Commutative Ring Theory in Fes Morocco The text details developments in commutative algebra highlighting the theory of rings and ideals It explores commutative algebra's connections with and applications to topological algebra and algebraic geometry

Finiteness Properties of Arithmetic Groups Acting on Twin Buildings Stefan Witzel, 2014-07-16 Providing an accessible approach to a special case of the Rank Theorem the present text considers the exact finiteness properties of S arithmetic subgroups of split reductive groups in positive characteristic when S contains only two places While the proof of the general Rank Theorem uses an involved reduction theory due to Harder by imposing the restrictions that the group is split and that S has only two places one can instead make use of the theory of twin buildings

p-Adic Analysis W. A. Zúñiga-Galindo, 2024-12-02 This book is intended to provide a fast interdisciplinary introduction to the basic results of p adic analysis and its connections with mathematical physics and applications The book revolves around three topics 1 p adic heat equations and ultradiffusion 2 fundamental solutions and local zeta functions Riesz kernels and quadratic forms 3 Sobolev type spaces and pseudo differential evolution equations These topics are deeply connected with very relevant current research areas The book includes numerous examples exercises and snapshots of several mathematical theories This book arose from the need to quickly introduce mathematical audience the basic concepts and techniques to do research in p adic analysis and its connections with mathematical physics and other areas The book is addressed to a general mathematical audience which includes computer scientists theoretical physicists and people interested in mathematical analysis PDEs etc

Relative Trace Formulas Werner Müller, Sug Woo Shin, Nicolas Templier, 2021-05-18 A series of three symposia took place on the topic of trace formulas each with an accompanying proceedings volume The present volume is the third and final in this series and focuses on relative trace formulas in relation to special values of L functions integral representations arithmetic cycles theta correspondence and branching laws The first volume focused on Arthur's trace formula and the second volume focused on methods from algebraic geometry and representation theory The three proceedings volumes have provided a

snapshot of some of the current research in the hope of stimulating further research on these topics The collegial format of the symposia allowed a homogeneous set of experts to isolate key difficulties going forward and to collectively assess the feasibility of diverse approaches

Women in Commutative Algebra Claudia Miller, Janet Striuli, Emily E. Witt, 2022-03-18 This volume features contributions from the Women in Commutative Algebra WICA workshop held at the Banff International Research Station BIRS from October 20-25 2019 run by the Pacific Institute of Mathematical Sciences PIMS The purpose of this meeting was for groups of mathematicians to work on joint research projects in the mathematical field of Commutative Algebra and continue these projects together long distance after its close The chapters include both direct results and surveys with contributions from research groups and individual authors The WICA conference was the first of its kind in the large and vibrant area of Commutative Algebra and this volume is intended to showcase its important results and to encourage further collaboration among marginalized practitioners in the field It will be of interest to a wide range of researchers from PhD students to senior experts

Twisted Isospectrality, Homological Wideness, and Isometry Gunther Cornelissen, Norbert Peyerimhoff, 2023-05-10 The question of reconstructing a geometric shape from spectra of operators such as the Laplace operator is decades old and an active area of research in mathematics and mathematical physics This book focusses on the case of compact Riemannian manifolds and in particular the question whether one can find finitely many natural operators that determine whether two such manifolds are isometric coverings The methods outlined in the book fit into the tradition of the famous work of Sunada on the construction of isospectral non isometric manifolds and thus do not focus on analytic techniques but rather on algebraic methods in particular the analogy with constructions in number theory methods from representation theory and from algebraic topology The main goal of the book is to present the construction of finitely many twisted Laplace operators whose spectrum determines covering equivalence of two Riemannian manifolds The book has a leisure pace and presents details and examples that are hard to find in the literature concerning fiber products of manifolds and orbifolds the distinction between the spectrum and the spectral zeta function for general operators strong isospectrality twisted Laplacians the action of isometry groups on homology groups monomial structures on group representations geometric and group theoretical realisation of coverings with wreath products as covering groups and class field theory for manifolds The book contains a wealth of worked examples and open problems After perusing the book the reader will have a comfortable working knowledge of the algebraic approach to isospectrality This is an open access book

Constructive Commutative Algebra Ihsen Yengui, 2015-12-11 The main goal of this book is to find the constructive content hidden in abstract proofs of concrete theorems in Commutative Algebra especially in well known theorems concerning projective modules over polynomial rings mainly the Quillen Suslin theorem and syzygies of multivariate polynomials with coefficients in a valuation ring Simple and constructive proofs of some results in the theory of projective modules over polynomial rings are also given and light is cast upon recent progress on the Hermite ring and Gröbner ring conjectures New

conjectures on unimodular completion arising from our constructive approach to the unimodular completion problem are presented. Constructive algebra can be understood as a first preprocessing step for computer algebra that leads to the discovery of general algorithms even if they are sometimes not efficient. From a logical point of view, the dynamical evaluation gives a constructive substitute for two highly nonconstructive tools of abstract algebra: the Law of Excluded Middle and Zorn's Lemma. For instance, these tools are required in order to construct the complete prime factorization of an ideal in a Dedekind ring, whereas the dynamical method reveals the computational content of this construction. These lecture notes follow this dynamical philosophy.

Advances in Rings, Modules and Factorizations Alberto Facchini, Marco Fontana, Alfred Geroldinger, Bruce Olberding, 2020-06-02 Occasioned by the international conference Rings and Factorizations held in February 2018 at University of Graz, Austria, this volume represents a wide range of research trends in the theory of commutative and non-commutative rings and their modules, including multiplicative ideal theory, Dedekind and Krull rings and their generalizations, rings of integer-valued polynomials, topological aspects of ring theory, factorization theory in rings and semigroups, and direct sum decompositions of modules. The volume will be of interest to researchers seeking to extend or utilize work in these areas, as well as graduate students wishing to find entryways into active areas of current research in algebra. A novel aspect of the volume is an emphasis on how diverse types of algebraic structures and contexts (rings, modules, semigroups, categories) may be treated with overlapping and reinforcing approaches.

Combinatorial and Additive Number Theory IV Melvyn B. Nathanson, 2021-08-12 This is the fourth in a series of proceedings of the Combinatorial and Additive Number Theory CANT conferences based on talks from the 2019 and 2020 workshops at the City University of New York. The latter was held online due to the COVID-19 pandemic and featured speakers from North and South America, Europe, and Asia. The 2020 Zoom conference was the largest CANT conference in terms of the number of both lectures and participants. These proceedings contain 25 peer-reviewed and edited papers on current topics in number theory. Held every year since 2003 at the CUNY Graduate Center, the workshop surveys state-of-the-art open problems in combinatorial and additive number theory and related parts of mathematics. Topics featured in this volume include sumsets, zero-sum sequences, minimal complements, analytic and prime number theory, Hausdorff dimension, combinatorial and discrete geometry, and Ramsey theory. This selection of articles will be of relevance to both researchers and graduate students interested in current progress in number theory.

Ramanujan's Notebooks Bruce C. Berndt, 2012-12-06 Srinivasa Ramanujan is arguably the greatest mathematician that India has produced. His story is quite unusual, although he had no formal education in mathematics; he taught himself and managed to produce many important new results. With the support of the English number theorist G. H. Hardy, Ramanujan received a scholarship to go to England and study mathematics. He died very young, at the age of 32, leaving behind three notebooks containing almost 3000 theorems, virtually all without proof. G. H. Hardy and others strongly urged that the notebooks be edited and published, and the result is this series of books. This volume deals with Chapters 1-9 of

Book II each theorem is either proved or a reference to a proof is given **Number Theory** Don Redmond,1996-04-23 This text provides a detailed introduction to number theory demonstrating how other areas of mathematics enter into the study of the properties of natural numbers It contains problem sets within each section and at the end of each chapter to reinforce essential concepts and includes up to date information on divisibility problems polynomial congruence the sums of squares and trigonometric sums Five or more copies may be ordered by college or university bookstores at a special price available on application *Chain Conditions in Commutative Rings* Ali Benhissi,2022-10-07 This book gathers in a beautifully

structured way recent findings on chain conditions in commutative algebra that were previously only available in papers The majority of chapters are self contained and all include detailed proofs a wealth of examples and solved exercises and a complete reference list The topics covered include S Noetherian S Artinian Nonnil Noetherian and Strongly Hopfian properties on commutative rings and their transfer to extensions such as polynomial and power series rings and more Though primarily intended for readers with a background in commutative rings modules polynomials and power series extension rings the book can also be used as a reference guide to support graduate level algebra courses or as a starting point for further research **Irrationality and Transcendence in Number Theory** David Angell,2021-12-30 Irrationality

and Transcendence in Number Theory tells the story of irrational numbers from their discovery in the days of Pythagoras to the ideas behind the work of Baker and Mahler on transcendence in the 20th century It focuses on themes of irrationality algebraic and transcendental numbers continued fractions approximation of real numbers by rationals and relations between automata and transcendence This book serves as a guide and introduction to number theory for advanced undergraduates and early postgraduates Readers are led through the developments in number theory from ancient to modern times The book includes a wide range of exercises from routine problems to surprising and thought provoking extension material Features Uses techniques from widely diverse areas of mathematics including number theory calculus set theory complex analysis linear algebra and the theory of computation Suitable as a primary textbook for advanced undergraduate courses in number theory or as supplementary reading for interested postgraduates Each chapter concludes with an appendix setting out the basic facts needed from each topic so that the book is accessible to readers without any specific specialist background

Commutative Algebra Marco Fontana,Salah-Eddine Kabbaj,Bruce Olberding,Irena Swanson,2010-09-29 Commutative algebra is a rapidly growing subject that is developing in many different directions This volume presents several of the most recent results from various areas related to both Noetherian and non Noetherian commutative algebra This volume contains a collection of invited survey articles by some of the leading experts in the field The authors of these chapters have been carefully selected for their important contributions to an area of commutative algebraic research Some topics presented in the volume include generalizations of cyclic modules zero divisor graphs class semigroups forcing algebras syzygy bundles tight closure Gorenstein dimensions tensor products of algebras over fields as well as many others This book is intended for

researchers and graduate students interested in studying the many topics related to commutative algebra

Algebraic, Number Theoretic, and Topological Aspects of Ring Theory Jean-Luc Chabert, Marco Fontana, Sophie Frisch, Sarah Glaz, Keith Johnson, 2023-07-07 This volume has been curated from two sources presentations from the Conference on Rings and Polynomials Technische Universität Graz Graz Austria July 19-24 2021 and papers intended for presentation at the Fourth International Meeting on Integer valued Polynomials and Related Topics CIRM Luminy France which was cancelled due to the pandemic The collection ranges widely over the algebraic number theoretic and topological aspects of rings algebras and polynomials Two areas of particular note are topological methods in ring theory and integer valued polynomials The book is dedicated to the memory of Paul Jean Cahen a coauthor or research collaborator with some of the conference participants and a friend to many of the others This collection contains a memorial article about Paul Jean Cahen written by his longtime research collaborator and coauthor Jean Luc Chabert

Representation Theory of Finite Group Extensions Tullio Ceccherini-Silberstein, Fabio Scarabotti, Filippo Tolli, 2022-11-29 This monograph adopts an operational and functional analytic approach to the following problem given a short exact sequence group extension $1 \rightarrow N \rightarrow G \rightarrow H \rightarrow 1$ of finite groups describe the irreducible representations of G by means of the structure of the group extension This problem has attracted many mathematicians including I Schur A H Clifford and G Mackey and more recently M Isaacs B Huppert Y G Berkovich E M Zhmud and J M G Fell R S Doran The main topics are on the one hand Clifford Theory and the Little Group Method of Mackey and Wigner for induced representations and on the other hand Kirillov's Orbit Method for step 2 nilpotent groups of odd order which establishes a natural and powerful correspondence between Lie rings and nilpotent groups As an application a detailed description is given of the representation theory of the alternating groups of metacyclic quaternionic dihedral groups and of the finite Heisenberg group The Little Group Method may be applied if and only if a suitable unitary 2-cocycle the Mackey obstruction is trivial To overcome this obstacle unitary projective representations are introduced and corresponding Mackey and Clifford theories are developed The commutant of an induced representation and the relative Hecke algebra is also examined Finally there is a comprehensive exposition of the theory of projective representations for finite Abelian groups which is applied to obtain a complete description of the irreducible representations of finite metabelian groups of odd order

Research Schools on Number Theory in India Purabi Mukherji, 2021-01-05 This book is an attempt to describe the gradual development of the major schools of research on number theory in South India Punjab Mumbai Bengal and Bihar including the establishment of Tata Institute of Fundamental Research TIFR Mumbai a landmark event in the history of research of number theory in India Research on number theory in India during modern times started with the advent of the iconic genius Srinivasa Ramanujan inspiring mathematicians around the world This book discusses the national and international impact of the research made by Indian number theorists It also includes a carefully compiled comprehensive bibliography of major 20th century Indian number theorists making this book important from the standpoint

of historic documentation and a valuable resource for researchers of the field for their literature survey This book also briefly discusses the importance of number theory in the modern world of mathematics including applications of the results developed by indigenous number theorists in practical fields Since the book is written from the viewpoint of the history of science technical jargon and mathematical expressions have been avoided as much as possible Algorithms and Discrete Applied Mathematics Subrahmanyam Kalyanasundaram, Anil Maheshwari, 2024-01-13 This book constitutes the refereed proceedings of the 10th International Conference on Algorithms and Discrete Applied Mathematics CALDAM 2024 held in Bhilai India during February 15 17 2024 The 22 full papers included in this book were carefully reviewed and selected from 57 submissions They were organized in topical sections as follows Algorithms and Complexity Computational Geometry Discrete Applied Mathematics Graph Algorithms Graph Theory *Algorithmic Number Theory* Florian Hess, Sebastian Pauli, Michael Pohst, 2006-10-05 This book constitutes the refereed proceedings of the 7th International Algorithmic Number Theory Symposium ANTS 2006 held in Berlin July 2006 The book presents 37 revised full papers together with 4 invited papers selected for inclusion The papers are organized in topical sections on algebraic number theory analytic and elementary number theory lattices curves and varieties over fields of characteristic zero curves over finite fields and applications and discrete logarithms

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